

1: IDENTIFICATION

Chemical Name	5,12-dihydroxy-11-methyl-6-methylidene-16-oxo-15-oxapentacyclo[9.3.2.15.8.01,10.02,8]heptadec-13-ene-9-carboxylic acid		
Synonyms	Gibberellic Acid 0.001% L	Trade Name	STELAR
Uses	Plant growth regulator	Molecular Formula	C ₁₉ H ₂₂ O ₆
Manufacturer/ Supplier	Ulink AgriTech Pvt. Ltd. Office Nos. 001 And 002, Ground Floor Wing "A" And Nos. 003 And 004 Ground Floor Wing "B", Nyati Tech Park, Wadgaon Sheri, Pune - 411014, Maharashtra		
Emergency Contact	9503095030	E-mail	info@agrostar.in

2: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Name	CAS #	Percent or Content (w/w)
Gibberellic Acid	77-06-5	0.001%
Other Ingredient	-	99.999%

3: HAZARD IDENTIFICATION

Physical/Chemical Hazard:	Acute toxicity, Category 4; Reproductive toxicity, Category 1B
Human Health Hazard:	H302 Harmful if swallowed. H360Df May damage the unborn child. Suspected of damaging fertility

4: FIRST AID MEASURES

General: Have the product container, label or Safety Data Sheet while seeking medical attention, a poison control center or physician, or going for treatment.

Inhalation: Move patients to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Immediately seek medical attention if symptoms are severe or persist.

Ingestion: Rinse mouth with water thoroughly. Do not induce vomiting unless told by medical personnel. Seek medical attention immediately and show this container or label.

Skin Contact: In case of contact with product, wash immediately skin area with plenty of water and soap. Speed in removing material from skin is extremely important. Remove and isolate contaminated clothing and shoes. Seek medical attention.

Eye Contact: Rinse immediately with plenty of water for several minutes. After 5 minutes remove contact lenses if present and continue rinsing with plenty of water. Continue to rinse with eyelid wide open for at least 15-20 minutes. Seek medical attention if irritation develops.

Note to Physician: No specific Antidote. Treat symptomatically.

5: FIRE FIGHTING MEASURES

Extinguishing Media: Water fog, alcohol-resistant foam, dry chemical powder or carbon dioxide

Unsuitable Extinguishing Media: Solid water stream as it may scatter and spread fire.

Specific Hazards: No risk of an explosion from this product under normal circumstances if involved in a fire. In case of fire, product may produce dense black smoke containing hazardous products of combustion as it contain combustible organic ingredients and exposure to this smoke may be a hazard to health.

Hazardous Thermal (de)composition: May release irritating and toxic gases due to thermal decomposition.

Special Procedures: Do not discharge extinguishing water into the drain or water bodies. If risk of water pollution occurs, notify appropriate authorities. Move containers away from area if it can be done without risk. If possible without risk, remove containers from fire zone, cool with water spray. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. streams. Dike area to prevent water runoff.

Protection of Fire Fighters: Protection of fire fighters: Do not breathe a fumes. Wear a self contained breathing apparatus and protective clothes. Fight fire from protected location or maximum possible distance.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ventilate spillage area. Avoid breathing fume. Use personal protective equipment including suitable protective clothing, gloves and eye or face Protection. Evacuate personnel to safe areas.

Environmental Precaution: Do not allow runoff to enter drains and public waters. Notify the authorities if product enters.

Methods for Cleaning-up: Adsorb spillages using spillage with non-combustible, absorbent material. Collect and transfer into waste disposal containers and seal securely. Label containers as waste and contaminated materials and remove from the area as soon as possible. Clean contaminated floors and objects thoroughly with water and detergents. Wear suitable protective equipment.

7: HANDLING & STORAGE

Handling: Do not smoke, drink, or eat during handling. Wash hands and other exposed areas with soap and water before and after handling the product. Wear protective equipments to avoid contact and/or inhalation with the product. Remove contaminated clothing and shoes. Wash clothing and equipment before reuse. Good personal hygiene procedures must be practiced.

Specific Conditions: Good local ventilation.

Storage: Store in dry, cool and well-ventilated area. Keep in original container and tightly closed when not in use. Protect containers from direct sunlight. Keep product away from seeds, fertilizer, foods and animal feeds.

8: EXPOSURE CONTROL/PERSONAL Protection

Engineering Measures: Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. No special requirements. Product is used outdoors.

General Protection: Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist, elbow-length PVC gloves and face shield. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

Personal Protection: Follow all precautions and instructions on the label. In all other cases the following recommendations would apply.

Respiratory Protection: Always use NIOSH/MSHA approved respiratory Protection equipment with a universal filter type including particle filter.

Skin Protection: Wear suitable protective clothing, including long sleeved shirt, waterproof long pants, shoes, gloves, or cover all to avoid skin contact. Any clothing or other absorbent material which has been drenched or heavily contaminated must be discarded.

Hand Protection: Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC) or Viton.

Eye Protection: Safety goggles, chemical splash goggles or face shield for eyes Protection should be used. Safety showers and eyewash should be easily available.

Others: - Wash clothing before reusing.

9: PHYSICAL/CHEMICAL PROPERTIES

Appearance: Crystalline solid **Physical State:** Solid **Melting Point [°C]:** 223 – 225 (decomp.)

Colour: Greenish fluorescent **Solubility in Water:** 4.6 mg/l in water

10: STABILITY & REACTIVITY

Stability: Stable under normal circumstances. **Conditions to Avoid:** No data available

Hazardous Decomp. Products: The decomposition products may produce toxic fumes.

Hazardous Reactions: No polymerization will occur. **Material to Avoid:** Alkaline materials and solutions containing chlorine

11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : >15000 Rat inhalation: No ill-effect on rats subjected to 400 mg/l for 2h/d for 21d Skin irritation (rabbit): Non-Irritant

Dermal (rat) LD50 [mg/kg]: >2,000 Skin Sensitization (Guinea Pig): Non-sensitizer Eye irritation (rabbit): Non-Irritant

12: ECOLOGICAL INFORMATION

Ecotoxicity:

Bobwhite quail LC50 (Oral)[mg/kg]: >4640 Rainbow trout LC50 (96 h) [mg/L]: >210

Daphnia magna EC50 (48 h): 488 mg/l; NOEL(48h)360 ppm

Bio-accumulation Potential: No data available

Persistence, Degradability and Mobility in soil No data available

13: DISPOSAL CONSIDERATION

Waste-disposal Procedures: Dispose of this product only according to the label. Do not contaminate drains, streams, rivers or waterways with the chemical or used container. Add rinsing's to spray tank.

Contaminated Packaging: Empty remaining contents and the rinse containers before disposal thrice. Empty containers should be taken to an approved waste handling site for recycling or disposal. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14: TRANSPORT INFORMATION

UN No. NA **Proper Shipping Name:** Not regulated as a hazardous material

Land Transport (ADR/RID): NA **Air Transport (IATA/ICAO):** NA

Sea Transport (IMO/IMDG): NA

15: REGULATORY INFORMATION

Hazard symbol: GHS09, Dangerous for the environment (N)

Risk Phrases: R22, R38, R41, R43 **Safety Phrases:** S1/2, S26, S35

16: OTHER INFORMATION

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